

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

1. (currently amended) A vibration plate (1), having a baseplate (2), which may be set into vibration by an exciter device (9), having at least one ground plate (3), a top plate (4), and a cell structure (5), which is positioned between the ground plate (3) and the top plate (4) and stiffens the baseplate (2), as supporting components, ~~characterized in that~~ wherein the supporting components form a baseplate (2) having a stiffness in which the lowest natural frequency of the baseplate (2) is at least 2 to 5 times, preferably at least 3 to 4 times the frequency of its vibration.
2. (currently amended) The vibration plate according to Claim 1, ~~characterized in that~~ wherein the supporting components (3, 4, 5) are welded to one another to form a self-supporting body.
3. (currently amended) The vibration plate according to Claim 1 ~~or 2, characterized in that~~ wherein the vibration plate (1) has a surface pressure because of its intrinsic weight between 0.1 N/cm² and 3 N/cm².
4. (currently amended) The vibration plate according to Claim 1 ~~one of the preceding claims, characterized in that~~ wherein the vibration of the baseplate (2) may be set as desired at a frequency between 30 Hz and 60 Hz.
5. (currently amended) The vibration plate according to Claim 1 ~~one of the preceding claims, characterized in that~~ wherein the vibration of the baseplate (2) may be set as desired at an amplitude of more than 0.1 mm and less than 10 mm, preferably 5 mm.
6. (currently amended) The vibration plate according to Claim 1 ~~one of the preceding claims, characterized in that~~ wherein the baseplate (2) has at least one longitudinal girder (8) welded to the cell structure (5) as a further supporting component, which extends parallel to and over a significant part of a long side of the baseplate (2).

7. (currently amended) The vibration plate according to Claim 1 ~~one of the preceding claims, characterized in that~~ wherein the longitudinal girder (8) is positioned below the exciter device (9).
8. (currently amended) The vibration plate according to Claim 1 ~~one of the preceding claims, characterized in that~~ wherein the longitudinal girder (8) is implemented as a frame lying on the ground plate (3).
9. (currently amended) The vibration plate according to Claim 1 ~~one of the preceding claims, characterized in that~~ wherein the individual cells of the cell structure (5) each have a base (23), whose maximum lateral extension (22) is 20 mm to 200 mm, preferably 56 mm to 162 mm.
10. (currently amended) The vibration plate according to Claim 1 ~~one of the preceding claims, characterized in that~~ wherein the cell structure (5) has cells having at least partially round bases (23).
11. (currently amended) The vibration plate according to Claim 1 ~~one of the preceding claims, characterized in that~~ wherein the cell structure (5) has at least partially differing cell shapes.
12. (currently amended) The vibration plate according to Claim 1 ~~one of the preceding claims, characterized in that~~ wherein the cell structure (5) has closed cell side walls (6, 7, 21).
13. (currently amended) The vibration plate according to Claim 1 ~~one of the preceding claims, characterized in that~~ wherein planes of the cells parallel to the base (23) each have the same shape and area as the base (23).
14. (currently amended) The vibration plate according to Claim 1 ~~one of the preceding claims, characterized in that~~ wherein the cell structure (5) is open on top.

15. (currently amended) The vibration plate according to Claim 1 ~~one of the preceding claims, characterized in that~~ wherein the cell structure ~~(5)~~ is partially closed on top by the top plate ~~(4)~~.
16. (currently amended) The vibration plate according to Claim 1 ~~one of the preceding claims, characterized in that~~ wherein a profiled strip ~~(13)~~ is attached externally to the ground plate ~~(3)~~.
17. (currently amended) The vibration plate according to Claim 1 ~~one of the preceding claims, characterized in that~~ wherein the vibration plate has a vibration-insulated suspension ~~(11)~~ for installation on a self-propelled support device, which is connected to one of the supporting components of the baseplate ~~(2)~~.
18. (currently amended) The vibration plate according to Claim 1 ~~one of the preceding claims, characterized in that~~ wherein the exciter device ~~(9)~~ is attached to at least one of the supporting components ~~(3, 4, 5, 8)~~ of the baseplate ~~(2)~~.
19. (currently amended) The vibration plate according to Claim 1 ~~one of the preceding claims, characterized in that~~ wherein the exciter device ~~(9)~~ may be coupled to a drive of the self-propelled support device and driven thereby.
20. (currently amended) The vibration plate according to Claim 1 ~~one of the preceding claims, characterized in that~~ wherein the baseplate ~~(2)~~ has an operating width essentially corresponding to its long side, which is at least approximately as wide as the self-propelled support device, particularly wider than the lane of the support device.
21. (currently amended) The vibration plate according to Claim 1 ~~one of the preceding claims, characterized in that~~ wherein the baseplate ~~(2)~~ has a cross-section, in which the region of the ground plate ~~(3)~~ lying forward in operating direction is curved upward together with a forward region of the top plate ~~(4)~~.

22. (currently amended) The vibration plate according to Claim 1 ~~one of the preceding claims, characterized in that~~ wherein the baseplate (2) has a cross-section in which the region of the top plate (4) lying to the rear in the operating direction is slanted falling downward toward the ground plate (3).
23. (cancelled)